

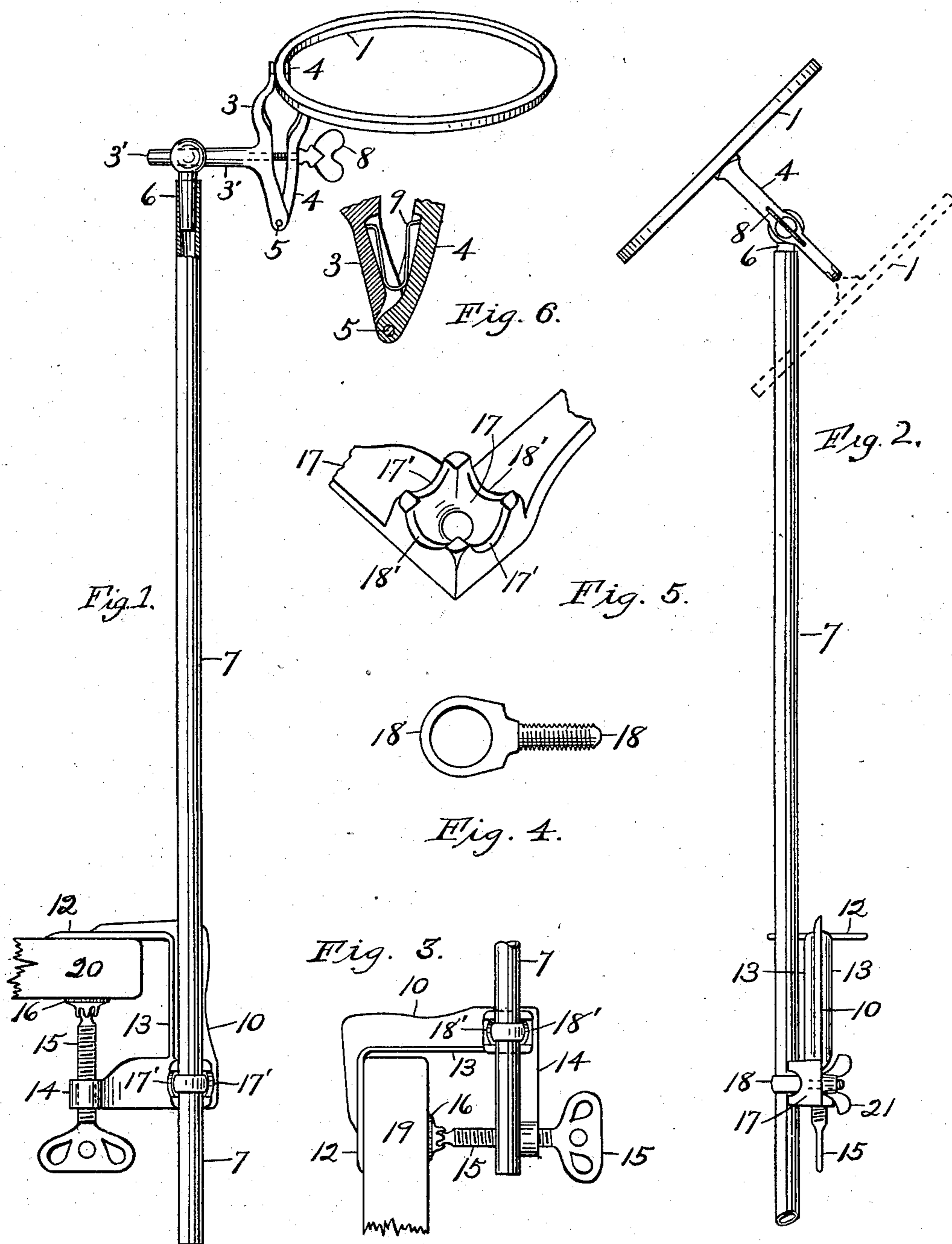
No. 698,572.

Patented Apr. 29, 1902.

M. F. SMITH.
EMBROIDERY HOOP HOLDER.

(Application filed Apr. 12, 1901.)

(No Model.)



WITNESSES:
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UNITED STATES PATENT OFFICE.

MILLARD F. SMITH, OF PARSONS, KANSAS.

EMBROIDERY-HOOP HOLDER.

SPECIFICATION forming part of Letters Patent No. 698,572, dated April 29, 1902.

Application filed April 12, 1901. Serial No. 55,510. (No model.)

To all whom it may concern:

Be it known that I, MILLARD F. SMITH, a citizen of the United States, and a resident of Parsons, in the county of Labette and State of Kansas, have invented new and useful Improvements in Embroidery-Hoop and Copy Holders, of which the following is a specification.

My invention relates to devices for holding embroidery-hoops in any desired position; and the objects of my invention are to produce a device for this purpose which may be clamped on the edge of a table or window-sill or on the seat or arm of a chair and which will hold the hoop in any position, thereby enabling the operator to use both hands on the work and permitting the operator to sit in a comfortable position instead of leaning over, as is usual when the hoop is held by the hand.

My invention comprises a clamp for holding the hoop, a tubular rod supporting the clamp, and a table or chair clamp connected to this rod, the construction of all of these parts being fully described hereinafter and pointed out in the claim.

Reference is had to the accompanying drawings, in which—

Figure 1 is an elevational view of the preferred embodiment of my invention, showing a hoop held in the hoop-clamp. Fig. 2 is a view of the device, taken at a right angle to the view in Fig. 1, showing one lowered position of the hoop in dotted lines, the lower end of the supporting-rod being broken away. Fig. 3 is a broken-away view showing the manner in which the table-clamp may be applied to a vertical support, with a portion of the supporting-rod as held by the clamp. Fig. 4 is an enlarged view of the eyebolt of the table-clamp detached. Fig. 5 is a broken-away perspective view of the eyebolt-socket in the corner of the table-clamp. Fig. 6 is a broken-away sectional detail view showing the spring in the hoop-clamp.

In Figs. 1 and 2, 1 designates the usual hoop employed for holding fabrics to be embroidered, the hoop consisting of two rings or hoops, fitting one within the other. The clamp for holding the hoop comprises two jaws 3 and 4, hinged or pivotally connected together at 5. The jaw 3 is provided with an integral lat-

eral shank 3', which is tapered, as shown, and mounted detachably in a tapering hole in the head of a plug 6, which plug is also tapered and mounted in the upper end of a tubular rod 7, said tube being reamed out, so as to fit the plug 6. A wing-screw 8 for moving the clamp member 4 toward the member 3 passes loosely through an opening in member 4 and enters an internally-threaded hole in the member 3. A wire spring 9 is held in notches in the inner faces of the jaws 3 4, as shown in Fig. 6, its function being to push out the jaw 4 when the screw 8 is retracted, thus opening the clamp.

The shank 3' may be turned to any desired angle in the head of the plug 6 and held there by friction, a slight pressure on the shank being sufficient to lock it in the plug, while it may be easily withdrawn therefrom by giving it a backward twist. The plug 6 is adjusted and held in the tube 7 in the same manner. Two positions in which the hoop-clamp may be placed are shown in Fig. 2.

The supporting-rod 7 is held by a clamp 10, the construction of which is as follows: 10 designates the body of the clamp; 12, the foot; 13, strengthening-ribs along the sides of the body 10, and 14 a lug extending parallel to the foot. The clamping-screw 15 extends through an internally-threaded hole in the lug 14, and the usual disk 16 is loosely secured to the end of said screw 15 to provide an enlarged bearing-surface in place of the end of said screw.

In one corner of the clamping-body 10 is formed a socket 17 for an eyebolt 18, the stem of which bolt extends through a hole in the bottom of said socket.

Each of the four walls of socket 17 has a semicircular notch cut therein, the purpose of said notches being to receive the rod 7, as described hereinafter. 17' 17' designate two of said notches opposite each other, and 18' 18' designate the other two notches. The rod 7 is held either in notches 17' or 18', according to whether the clamp is to be secured to a vertical support, as 19 in Fig. 3, or to a lateral support, as 20 in Fig. 1. The rod 7 may be changed from one pair of notches to the other by first retracting or removing the wing-nut 21 on the eyebolt 18, in which case the rod need not be removed from the eyebolt,

or the rod may be withdrawn from the eye-bolt, which is then given a quarter-turn and the rod reinserted therein. Said rod 7 is of course adjustable vertically and rotatably in
5 the eyebolt 18, and when adjusted is firmly drawn by said bolt into the notches 17' or 18', as described.

Having now fully described my invention, what I claim as new, and desire to secure by
10 Letters Patent of the United States, is—

An embroidery-hoop holder comprising a clamp for engaging a chair, a table or the like, said clamp having a socket formed in one corner thereof and two notches cut into the
15 opposite respective walls of said socket, a

bolt-hole in the bottom of said socket, a bolt extending through said hole, a nut on said bolt, a tubular rod extending through the eye of said bolt and pressed thereby into said notches, a plug mounted in one end of said
20 rod and having a tapered transverse opening through its head, a tapering shank fitting within said opening, and a clamp secured to said shank, substantially as described.

In testimony whereof I affix my signature in the presence of two witnesses.

MILLARD F. SMITH.

Witnesses:

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